CREATING POWERFUL AND EFFECTIVE GRAPHICAL DISPLAYS

An Introduction to Lattice Graphics in R

William G. Jacoby
Michigan State University

jacyjo@msu.edu
http://polisci.msu.edu/jacyjo/apsa07/graphics/
**Figure 1:** A unidimensional scatterplot.
Figure 2: A histogram.
Figure 3: A smoothed histogram.
Figure 4: A dot plot.
Figure 5: Dot plot, with different line style.
Figure 6: A scatterplot.
Figure 7: A quantile comparison plot.


**Figure 8:** Histogram, with text tick labels on horizontal axis.
Figure 9: Histogram, with two-line text tick labels on horizontal axis.
Figure 10: Scatterplot with a third variable encoded into the plotting symbols.
Figure 11: Scatterplot with coded plotting symbols and a key.
**Figure 12:** Scatterplot with a loess curve fitted to the data.
**Figure 13:** Scatterplot with loess curve and OLS line fitted to the data.
**Figure 14:** A multipanel trellis display showing policy priorities, by region.
Figure 15: Obtaining R.

A. The R-Project Web Site.
Figure 15: Obtaining R.

B. Selecting a CRAN Mirror for the download.
Figure 15: Obtaining R.

C. The download page.
**Figure 15:** Obtaining R.

D. After downloading, double-click on the icon for the executable file.
**Figure 16:** Installing packages in R

A. Within R, click on “Packages” and “Install package(s) ...”.
Figure 16: Installing packages in R

B. Select a CRAN mirror from which to download packages.
Figure 16: Installing packages in R

C. Select a package to download.
Figure 17: Use the “library()” function to load the lattice package.
Figure 18: Lattice graphs are rendered within a separate window.